

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| | | |
|---|---|---|
| Applicant's or agent's file reference CE30944P | FOR FURTHER ACTION | see Form PCT/ISA/220 as well as, where applicable, item 5 below. |
| International application No. PCT/EP2004/050197 | International filing date (day/month/year) 24/02/2004 | (Earliest) Priority Date (day/month/year) 28/03/2003 |
| Applicant MOTOROLA INC. | | |

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. **Certain claims were found unsearchable** (See Box II).

3. **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

REDUCING NETWORK CONGESTION IN A WIRELESS COMMUNICATION SYSTEM BY PERFORMING A CALL GAPPING PROCESS IN A MOBILE STATION

5. With regard to the **abstract**,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the **drawings**,

a. the figure of the drawings to be published with the abstract is Figure No. 9

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

b. none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2004/050197

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

A wireless communication system (500) provides a number of communication resources for a plurality of mobile stations (512-516) and comprises a number of communication paths for routing a communication initiated by one of the plurality of mobile stations (512-516) to a destination node. In case of network congestion, a so-called call gapping process is performed in the mobile station, wherein a decision is made whether to continue or reject a call attempt. The mobile station receives a broadcast message from the network to initiate the call gapping process. The broadcast message may include a percentage of the calls to be blocked and in time-out value T. alternatively, the mobile station may generate a random test number for call blocking.

The proposed technique provides congestion relief using call gapping, extended to use by a wireless subscriber unit to minimise air-interface traffic in a wireless communication environment. In this manner, calls are prevented from being initiated when they would have ultimately resulted in an unconnected call

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International Application No
PCT/EP2004/050197

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04Q7/38

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04Q H04M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| Y | US 5 982 757 A (FORS CHAD MICHAEL ET AL) 9 November 1999 (1999-11-09) column 1, line 28 - column 2, line 17 column 2, line 42 - column 5, line 2 figure 1 ----- EP 0 687 116 A (AT & T CORP) 13 December 1995 (1995-12-13) page 2, line 9 - page 3, line 22 page 3, line 43 - page 4, line 39 figure 3 ----- US 5 933 481 A (MACDONALD DOUGLAS MALCOLM) 3 August 1999 (1999-08-03) column 2, line 18 - column 2, line 41 column 5, line 28 - column 5, line 34 figure 1 ----- | 1-18 1-18 1-18 |
| A | | -/- |

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *8* document member of the same patent family

Date of the actual completion of the international search

15 July 2004

Date of mailing of the international search report

22/07/2004

Name and mailing address of the ISA

European Patent-Office, P.B. 5818 Patenttaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040. Tx. 31651 epo nl.
Fax: (+31-70) 340-3016

Authorized officer

Goedhart, A

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International Application No
PCT/EP2004/050197

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|----------|--|-----------------------|
| A | US 5 548 533 A (BASU KALYAN ET AL) 20 August 1996 (1996-08-20) cited in the application column 1, line 38 - column 1, line 41 column 2, line 55 - column 3, line 25 figure 1 ----- | 1-18 |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/EP2004/050197

| Patent document cited in search report | Publication date | | Patent family member(s) | | Publication date |
|--|------------------|------------|--|---|--|
| US 5982757 | A | 09-11-1999 | DE FR GB JP WO | 19882099 T0 2767009 A1 2342822 A 2001510968 T 9904581 A1 | 28-09-2000 05-02-1999 19-04-2000 07-08-2001 28-01-1999 |
| EP 0687116 | A | 13-12-1995 | US CA CN DE DE EP JP | 5500889 A 2145801 A1 1129379 A 69528213 D1 69528213 T2 0687116 A2 7336435 A | 19-03-1996 10-12-1995 21-08-1996 24-10-2002 08-05-2003 13-12-1995 22-12-1995 |
| US 5933481 | A | 03-08-1999 | CA | 2198938 A1 | 29-08-1997 |
| US 5548533 | A | 20-08-1996 | NONE | | |